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(71) Applicant: NCR INTERNATIONAL INC.
Dayton, Ohio 45479 (US)

(72) Inventors:

- Leong, Liem Hak
Angus, Dundee, Scotland DD5 3SF (GB)

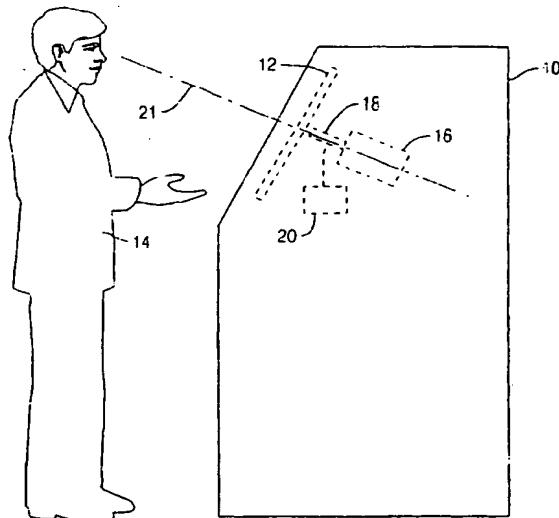
- Nicoll, Kenneth A.
Birkhill, Dundee, Scotland DD2 5PG (GB)
- Paton, Grant
Dundee, Scotland DD4 7QG (GB)

(74) Representative: Williamson, Brian et al
International IP Department,
NCR Limited,
206 Marylebone Road
London NW1 6LY (GB)

(54) Self service terminal

(57) A method of implementing biometrics recognition for recognising a user based on one or more of the user's facial characteristics is described. A self service terminal (10) implementing biometrics recognition based on one or more facial characteristics of a user is also described. The terminal (10) includes a display (12) for displaying information to the user and a camera (16) for recording an image of one or more of the user's facial characteristics, such as the user's iris. The camera (16) is located behind the display (12) so that the camera (16) is operable to record an image of one or more of the user's facial characteristics while the user observes the display (12).

FIG. 2



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EUROPEAN SEARCH REPORT

Application Number
EP 00 30 2284

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	EP 0 872 814 A (BRITISH TELECOMM) 21 October 1998 (1998-10-21)	1-5,9,10	G06K9/00 G07F19/00
Y	* column 2, line 51 - line 55 * * column 3, line 51 - line 53 * * column 7, line 30 - line 35 * * column 8, line 24 - line 31 * * column 9, line 13 - line 20 * * figures 2,4 *	7,8	
Y	WO 97 46978 A (GIFFORD MAURICE MERRICK ; BRITISH TELECOMM (GB); MCCARTNEY DAVID JO) 11 December 1997 (1997-12-11) * page 10, line 5 - line 8 *	7,8	
A	FR 2 576 436 A (ANBAR GASTON) 25 July 1986 (1986-07-25) * the whole document *	2-10	
A	US 5 666 155 A (MERSEREAU KEITH OWEN) 9 September 1997 (1997-09-09) * summary of the invention * * figure 1 *	6	
	-----		TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			G06K G07F G07C H04N
<p>The present search report has been drawn up for all claims</p>			
Place of search	Date of completion of the search	Examiner:	
MUNICH	25 February 2004	Rimassa, S	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

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ON EUROPEAN PATENT APPLICATION NO.**

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25-02-2004

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0872814	A	21-10-1998	EP	0872814 A1	21-10-1998
			AU	3039297 A	05-01-1998
			AU	3039397 A	05-01-1998
			AU	3039497 A	05-01-1998
			CN	1221503 A	30-06-1999
			CN	1221504 A ,B	30-06-1999
			DE	69712484 D1	13-06-2002
			DE	69712484 T2	19-12-2002
			DE	69717826 D1	23-01-2003
			DE	69717826 T2	04-09-2003
			DE	69721537 D1	05-06-2003
			EP	0922271 A1	16-06-1999
			EP	0910836 A1	28-04-1999
			EP	0909431 A1	21-04-1999
			WO	9746978 A1	11-12-1997
			WO	9746979 A1	11-12-1997
			WO	9746980 A1	11-12-1997
			JP	2000512167 T	19-09-2000
			JP	2000512168 T	19-09-2000
			JP	2000512169 T	19-09-2000
			KR	2000016468 A	25-03-2000
			KR	2000016469 A	25-03-2000
			US	2002122572 A1	05-09-2002
			US	6309069 B1	30-10-2001
			US	6333988 B1	25-12-2001
<hr/>					
WO 9746978	A	11-12-1997	EP	0872814 A1	21-10-1998
			AU	3039297 A	05-01-1998
			AU	3039397 A	05-01-1998
			AU	3039497 A	05-01-1998
			CN	1221503 A	30-06-1999
			CN	1221504 A ,B	30-06-1999
			DE	69712484 D1	13-06-2002
			DE	69712484 T2	19-12-2002
			DE	69717826 D1	23-01-2003
			DE	69717826 T2	04-09-2003
			DE	69721537 D1	05-06-2003
			EP	0922271 A1	16-06-1999
			EP	0910836 A1	28-04-1999
			EP	0909431 A1	21-04-1999
			WO	9746978 A1	11-12-1997
			WO	9746979 A1	11-12-1997
			WO	9746980 A1	11-12-1997
			JP	2000512167 T	19-09-2000
			JP	2000512168 T	19-09-2000
			JP	2000512169 T	19-09-2000

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ON EUROPEAN PATENT APPLICATION NO.**

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The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

25-02-2004

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 9746978	A		KR	2000016468 A	25-03-2000
			KR	2000016469 A	25-03-2000
			US	2002122572 A1	05-09-2002
			US	6309069 B1	30-10-2001
			US	6333988 B1	25-12-2001
FR 2576436	A	25-07-1986	FR	2561014 A1	13-09-1985
			FR	2576436 A2	25-07-1986
			AT	37247 T	15-09-1988
			AU	3932685 A	11-10-1985
			DE	3565018 D1	20-10-1988
			EP	0172840 A1	05-03-1986
			WO	8504274 A1	26-09-1985
US 5666155	A	09-09-1997	JP	3404186 B2	06-05-2003
			JP	8018936 A	19-01-1996